

# Ryan J. Gallagher

NETWORK SCIENCE PH.D. STUDENT MERGING TEXT AND NETWORKS FOR COMPUTATIONAL SOCIAL SCIENCE

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## Education

### Northeastern University

PH.D. NETWORK SCIENCE, 4.0/4.0

Advisor: Prof. Brooke Foucault Welles

Boston, MA

Sept. 2017 – PRESENT

### University of Vermont

M.S. APPLIED MATHEMATICS, 4.0/4.0

Advisors: Prof. Christopher M. Danforth, Prof. Peter Sheridan Dodds

Graduate Certificate: Complex Systems

Burlington, VT

Aug. 2015 – May 2017

### University of Connecticut

B.A. MATHEMATICS, *Summa Cum Laude*

Minor: Statistics

Storrs, CT

Aug. 2011 – May 2015

## Experience

### Research Assistant

NETWORK SCIENCE INSTITUTE, NORTHEASTERN UNIVERSITY

Boston, MA

Aug. 2017 – PRESENT

### Research Assistant

VERMONT COMPLEX SYSTEMS CENTER, UNIVERSITY OF VERMONT

Burlington, VT

Aug. 2015 – Aug. 2017

### Visiting Research Assistant

INFORMATION SCIENCES INSTITUTE, UNIVERSITY OF SOUTHERN CALIFORNIA

Los Angeles, CA

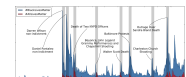
Jun. 2016/2017 – Aug. 2016/2017

## Peer-Reviewed Publications

### JOURNAL ARTICLES

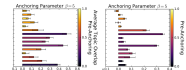
#### Divergent Discourse of Protests and Counter-Protests: #BlackLivesMatter and #AllLivesMatter

RYAN J. GALLAGHER, ANDREW J. REAGAN, CHRISTOPHER M. DANFORTH, PETER SHREIDAN DODDS. *PLoS ONE*, 13(4):E0195644, 2018.



#### Anchored Correlation Explanation: Topic Modeling with Minimal Domain Knowledge

RYAN J. GALLAGHER, KYLE REING, DAVID KALE, GREG VER STEEG. *Transactions of the Association for Computational Linguistics (TACL)*. 5:529–542, 2017.



## Presentations

### UPCOMING

#### Word Shift: A General Method for Visualizing and Explaining Pairwise Comparisons Between Texts

TEXT AS DATA 2018, UNIVERSITY OF WASHINGTON

Seattle, WA

Sep. 2018

### TALKS

#### Anchored Correlation Explanation: Topic Modeling with Minimal Domain Knowledge

NORTH AMERICAN CHAPTER OF THE ASSOCIATION FOR COMPUTATIONAL LINGUISTICS (NAACL) 2018

New Orleans, LA

Jun. 2018

#### Anchored Correlation Explanation: Topic Modeling with Minimal Domain Knowledge

TEXT AS DATA 2017, PRINCETON UNIVERSITY

Princeton, NJ

Oct. 2017

#### The Topic Topology of “Slacktivist” Networks

INFORMATION, SELF-ORGANIZING DYNAMICS AND SYNCHRONIZATION ON NETWORKS SATELLITE SYMPOSIUM, NETSCI 2017

Indianapolis, IN

Jun. 2017

## POSTER SESSIONS

### **Anchored Correlation Explanation: Topic Modeling with Minimal Domain Knowledge**

UVM STUDENT RESEARCH POSTER CONFERENCE, UNIVERSITY OF VERMONT

*Burlington, VT*

*Apr. 2017*

### **The Discourse and Dynamics of #BlackLivesMatter and #AllLivesMatter**

UVM STUDENT RESEARCH POSTER CONFERENCE, UNIVERSITY OF VERMONT

*Burlington, VT*

*Apr. 2016*

## Teaching

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### **Math Instructor**

DEPARTMENT OF MATHEMATICS AND STATISTICS, UNIVERSITY OF VERMONT

- Fall 2016, MATH19 Fundamentals of Calculus I (2 sections)
- Spring 2016, MATH17 Applications of Finite Math
- Fall 2015, MATH17 Applications of Finite Math

*Burlington, VT*

*Aug. 2015 – Dec. 2016*

### **Math Help Session Tutor**

DEPARTMENT OF MATHEMATICS AND STATISTICS, UNIVERSITY OF VERMONT

- Algebra, Precalculus, Finite Math, Calculus I, Calculus II

*Burlington, VT*

*Aug. 2015 – May 2017*

### **Course Grader**

DEPARTMENT OF MATHEMATICS AND STATISTICS, UNIVERSITY OF VERMONT

- Fall 2016, CSYS300 Principles of Complex Systems

*Burlington, VT*

*Aug. 2016 – Dec. 2016*

### **Supplemental Instruction Leader**

UConn ACADEMIC ACHIEVEMENT CENTER, UNIVERSITY OF CONNECTICUT

- Spring 2015, MATH1132Q Calculus II

*Storrs, CT*

*Jan. 2015 – May 2015*

## Professional Service

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### DEPARTMENTAL SERVICE

#### **Vice President**

NETWORK SCIENCE GRADUATE STUDENT ASSOCIATION, NORTHEASTERN UNIVERSITY

*Boston, MA*

*May 2018 – PRESENT*

#### **Organizer**

NETWORK SCIENCE INSTITUTE JOURNAL CLUB, NORTHEASTERN UNIVERSITY

*Boston, MA*

*Jan. 2018 – PRESENT*

#### **Co-Organizer**

AM I A (ALL MATH IS APPLIED) SEMINAR, UNIVERSITY OF VERMONT

*Burlington, VT*

*Aug. 2016 – May 2017*

### CONFERENCES, INSTITUTES, AND WORKSHOPS

#### **Co-Chair**

SATELLITES, SCHOOLS, AND POSTERS, NETSCI 2019

*Burlington, VT*

*Jun. 2018 – PRESENT*

#### **Co-Organizer**

SUMMER INSTITUTE IN COMPUTATIONAL SOCIAL SCIENCE (SICSS) 2019 PARTNER SITE

*Boston, MA*

*Jun. 2018 – PRESENT*

#### **Co-Organizer**

WOMEN'S, GENDER, AND SEXUALITY STUDIES (WGSS) SYMPOSIUM 2019: WOMEN AND RESILIENCE

*Boston, MA*

*Jun. 2018 – PRESENT*

#### **Co-Organizer**

CAUCUS FOR WOMEN IN NETWORK SCIENCE (WINS), COMPLENET 2018

*Boston, MA*

*Jan. 2018 – Mar. 2018*

### OPEN SOURCE SOFTWARE

#### **Co-Developer**

ANCHORED COREX TOPIC MODEL, [GITHUB.COM/GREGVERSTEEG/COREX\\_TOPIC](https://github.com/gregversteeg/corex_topic)

*Los Angeles, CA*

*Jun. 2017 – PRESENT*

### SOCIAL MEDIA

#### **Social Media Coordinator**

NETWORK SCIENCE INSTITUTE, NORTHEASTERN UNIVERSITY

*Boston, MA*

*Mar. 2018 – PRESENT*

#### **Social Media Coordinator**

COMPLENET 2018

*Boston, MA*

*Mar. 2018*

## PEER REVIEW

PLOS ONE   JOURNAL OF COMPLEX NETWORKS   INTERNATIONAL COMMUNICATIONS ASSOCIATION  
SOCIUS   AMERICAN SOCIOLOGICAL REVIEW

## Honors & Awards

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### HONORS

- 2018 **Invited Participant**, Summer Institute in Computational Social Science (SICSS), Duke University *Durham, NC*
- 2017 **Outstanding Masters Thesis Honorable Mention**, University of Vermont *Burlington, VT*
- 2015 **Honorary Inductee**, Pi Mu Epsilon Mathematics Honor Society, University of Connecticut *Storrs, CT*

### SCHOLARSHIPS

- 2017 **Nam Sang Kil Scholarship in Mathematics**, Department of Mathematics, University of Vermont *Burlington, VT*
- 2014 **Bernard Sippin '52 Scholarship**, Department of Mathematics, University of Connecticut *Storrs, CT*
- 2014 **Orange Scholarship**, The Homer Fund, Home Depot *Storrs, CT*

### AWARDS

- 2017 **SYNS Travel Grant**, Society of Young Network Scientists, NetSci 2017 *Indianapolis, IN*
- 2015 **Outstanding Presentation Award**, Mathematical Association of America, Joint Math Meeting 2015 *San Antonio, TX*
- 2015 **MAA Travel Grant**, Mathematical Association of America, Joint Math Meeting 2015 *San Antonio, TX*
- 2014 **MAA Travel Grant**, Mathematical Association of America, Joint Math Meeting 2014 *Baltimore, MD*